

Abstract**METHODS FOR DETECTING TENEURIN SIGNALLING AND RELATED SCREENING METHODS**

Methods are provided for detecting teneurin signaling by determining the presence and/or amount of a cleaved teneurin product, and correlating the presence and/or amount of the cleaved teneurin product with teneurin signalling. The methods can be used for screening possible anti-tumour agents or agents that modulate neuronal differentiation. Test substances are assayed for their ability to increase or decrease the presence of the cytoplasmic domain of teneurin or of its respective targets, such as ponsin, PML and zic.